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MERCHANT & GOULD PC			LIEN, TAN	
P.O. BOX 2903				
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			2141	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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-		Application No.	Applicant(s)				
		09/850,318	HAMILTON ET A	L.			
Office Action Summary		Examiner	Art Unit				
		Tan Lien	2141				
The N Period for Repl	MAILING DATE of this communication app Y	ears on the cover sheet w	vith the correspondence a	ddress			
THE MAILIN  - Extensions of t after SIX (6) M  - If the period for - If NO period for - Failure to reply Any reply recei	NED STATUTORY PERIOD FOR REPLY IG DATE OF THIS COMMUNICATION. Ime may be available under the provisions of 37 CFR 1.13 ONTHS from the mailing date of this communication. If reply specified above is less than thirty (30) days, a reply or reply is specified above, the maximum statutory period we within the set or extended period for reply will, by statute, wed by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thi vill apply and will expire SIX (6) MO cause the application to become A	reply be timely filed  rty (30) days will be considered time NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).				
Status							
1)⊠ Respo	nsive to communication(s) filed on 24 No	<u>ovember 2004</u> .					
2a)⊠ This a	ction is <b>FINAL</b> . 2b) This	action is non-final.					
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closed	in accordance with the practice under E	ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of (	Claims						
4a) Of 5) ☐ Claim( 6) ☑ Claim( 7) ☐ Claim(	(s) 1-21 is/are pending in the application the above claim(s) is/are withdraw (s) is/are allowed. (s) 1-21 is/are rejected. (s) is/are objected to. (s) are subject to restriction and/o	vn from consideration.					
Application Pa	pers						
<i>,</i> — ,	ecification is objected to by the Examine						
	awing(s) filed on is/are: a)☐ acc						
• •	ant may not request that any objection to the						
•	ement drawing sheet(s) including the correct ath or declaration is objected to by the Ex	·	= ' '				
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Priority under 3	•						
a)	wledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority application from the International Bureau attached detailed Office action for a list	s have been received. s have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this Nationa	l Stage			
Attachment(s)  1) Notice of Refe	erences Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	•			
2) Notice of Draft 3) Information D	ftsperson's Patent Drawing Review (PTO-948) isclosure Statement(s) (PTO-1449 or PTO/SB/08) Mail Date 1/13/2005.	Paper No	(s)/Mail Date Informal Patent Application (PT	<sup>-</sup> O-152)			

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### **DETAILED ACTION**

Claims 1-21 are presented for examination.

Claims 1, 7, 8, 16 and 19 are amended.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones et al (US Patent 6,134,609) in view of Fox (US Patent 6,151,700).

Claim(s) 1, 8: Jones teaches a computer implemented method of activating a requested processing component initiated by a calling component within a local computing system having one or more applications, the method comprising:

determining the identity of the requested processing component, including an identity of a class ID from a request to activate a component initiated by a calling component (col. 5, lines 24-35; wherein the component is the object method identify in the hash);

obtaining configuration data for the requested component, the configuration data comprises an indication of public-private status for the requested component (col. 5, lines 30-32; wherein when the client is doing an RMI call to the remote server and the server is creating a remote object, the remote application server has to obtain the public status of the requested component in order for the server to create the object component); and

if the configuration data indicates that the requested component is a public component, activating an instance of the requested component (col. 5, lines 30-32; wherein when the client is doing an RMI call to the remote server and the server is creating a remote object, the remote application server has to obtain the public status of the requested component in order for the server to create or making an instance of the object component);

Jones, however, fails to teach that if the configuration data indicates that the requested component is a private component, perform the following:

determining if the requested component is a member of an application that also includes the calling component as a member; and if the requested component and the calling component are members of the same application, activating an instance of the requested component.

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Fox, in an analogous art, teaches that if the method and data of an object or objects of the software application are private, the method and data of that object can be accessed only by the other methods of that same object and not by the methods of other objects or if the object is a private object, it can be accessed only by the application (col. 5 lines 11-24 and col. 6 lines 41-60). The concept of public and private access to methods and data of objects in object-oriented programming can be extended to public and private access to components of applications. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine and use Jones' method of invoking and identifying remote object methods with Fox's concept of public and private access to objects or components, for the advantages and benefits of encapsulation. Objects and components can be designed to hide or encapsulate the internal data structure and internal functions (col. 4, lines 17-22).

Claim(s) 2, 9: Jones and Fox teach the method according to claim 1, wherein the identity of the calling component corresponds to an identity obtained from a central directory service (FIG. 6 and col. 10, lines 30-38 Jones; wherein the central directory service is the mapping table built dynamically at run time on the server and the identity of the calling component is the hash value).

Claim(s) 3, 10: Jones and Fox teach the method according to claim 2, wherein

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the central directory service communicates with the local computer over a communication network (col. 2, lines 34-41 Jones).

- Claim(s) 4, 11: Jones and Fox teach the method according to claim 1, wherein the calling component is located on a remote computing system (FIG. 3 Jones; wherein the client program is doing a RMI call to the remote server. The client is located on a remote computing system).
- Claim(s) 5, 6, 12, 13: Jones and Fox teach the method according to claim 4, wherein the calling component transmit the request to activate a component to the local computing system across the Internet (FIG. 3 and col. 2, lines 34-41 Jones).

Claim(s) 7, 16-21: Jones teaches a computer implemented method of activating a requested processing component initiated by a calling component within a local computing system having one or more applications, the method comprising:

determining the identity of the requested processing component, including an identity of a class ID from a request to activate a component initiated by a calling component (col. 5, lines 24-35; wherein the component is the object method identify in the hash);

wherein the identity of the calling component corresponds to an identity obtained from a central directory service (FIG. 6 and col. 10, lines 30-38 Jones; wherein the central directory service is the mapping table built

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dynamically at run time on the server and the identity of the calling component is the hash value); and

the calling component is located on a remote computing system that transmits the request to activate a component to the local computing system across a communications network (FIG. 3 and col. 2, lines 34-41 Jones).

obtaining configuration data for the requested component, the configuration data comprises an indication of public-private status for the requested component (col. 5, lines 30-32; wherein when the client is doing an RMI call to the remote server and the server is creating a remote object, the remote application server has to obtain the public status of the requested component in order for the server to create the object component); and

if the configuration data indicates that the requested component is a public component, activating an instance of the requested component (col. 5, lines 30-32; wherein when the client is doing an RMI call to the remote server and the server is creating a remote object, the remote application server has to obtain the public status of the requested component in order for the server to create or making an instance of the object component);

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Jones, however, fails to teach that if the configuration data indicates that the requested component is a private component, perform the following:

determining if the requested component is a member of an application that also includes the calling component as a member; and if the requested component and the calling component are members of the same application, activating an instance of the requested component.

Fox, in an analogous art, teaches that if the method and data of an object or objects of the software application are private, the method and data of that object can be accessed only by the other methods of that same object and not by the methods of other objects or if the object is a private object, it can be accessed only by the application (col. 5 lines 11-24 and col. 6 lines 41-60). The concept of public and private access to methods and data of objects in object-oriented programming can be extended to public and private access to components of applications. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine and use Jones' method of invoking and identifying remote object methods with Fox's concept of public and private access to objects or components, for the advantages and benefits of encapsulation. Objects and components can be designed to hide or encapsulate the internal data structure and internal functions (col. 4, lines 17-22).

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Claim(s) 14: Jones and Fox teach the computer data product according to claim 8, wherein

the computer data product comprises a computer-readable medium having stored thereon a data structure a set of computer instructions (col. 7, lines 55-66 Jones).

Claim(s) 15: Jones and Fox teach the computer data product according to claim 8, wherein

the computer data product comprises a computer data signal embodied in a carrier wave readable by a computing system and encoding a set of computer instructions (col. 7, lines 55-66 Jones).

## Response to Amendment

Applicant's arguments filed 11/24/2004 have been fully considered but they are not persuasive.

In the Remarks, Applicant argued that

(a) Fox fails to disclose private component and discloses that if a method and data of an object are private, the method and data of that object can be accessed only by the other methods of that same object and not by methods of other objects or other software programs

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As to point (a), Fox discloses private and public components (col. 6 lines 40-60). Not only did Fox discloses method and data of objects have access modifier (private, protected, public), but also discloses that objects or components also have access modifiers that can communicate with other components specifically Java Bean components (col. 6 lines 41-60). It is well known in the art that member functions and member data have access modifiers, as well as objects themselves. In addition, independent claims 1, 7, 8, and 16 do not indicate anything about components of one application or software program accessing other components from other applications or software programs. As far as the independent claims are concerned, the claimed components can be methods communicating with each other or instantiated objects of different classes accessing each other.

(b) Fox discloses the ability to define variables as public or private duringprogramming and prior to compilation of the code for an object.As to point (b), independent claims do not direct or reflect to such arguments. In

addition, independent claims do not indicate whether the components accessing each other within an application or between different applications or same applications in different computing systems.

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Tan Lien whose telephone number is (703) 305-6018. The examiner can normally be reached on Monday-Thursday from 8:30am to 6pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia, can be reached at (703) 305-4003. The fax phone number for this Group is (703) 305-3718.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [tan.lien@uspto.gov].

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All Internet e-mail communications will be made of record in the application file.

PTO employees do not engage in Internet communications where there exists a

possibility that sensitive information could be identified or exchanged unless the

record includes a properly signed express waiver of the confidentiality requirements

of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy

published in the Official Gazette of the Patent and Trademark on February 25, 1997

at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group receptionist whose telephone number is

(703) 305-3900.

Examiner

TAN LIEN

SUPERVISORY PATENT EXAMINER